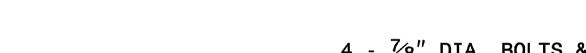


—1" X 1" BAR

SECTION VIEW

(SEE NOTE 9) i



BRIDGE RAIL

BRIDGE END POST-

EXISTING BRIDGE END POST-

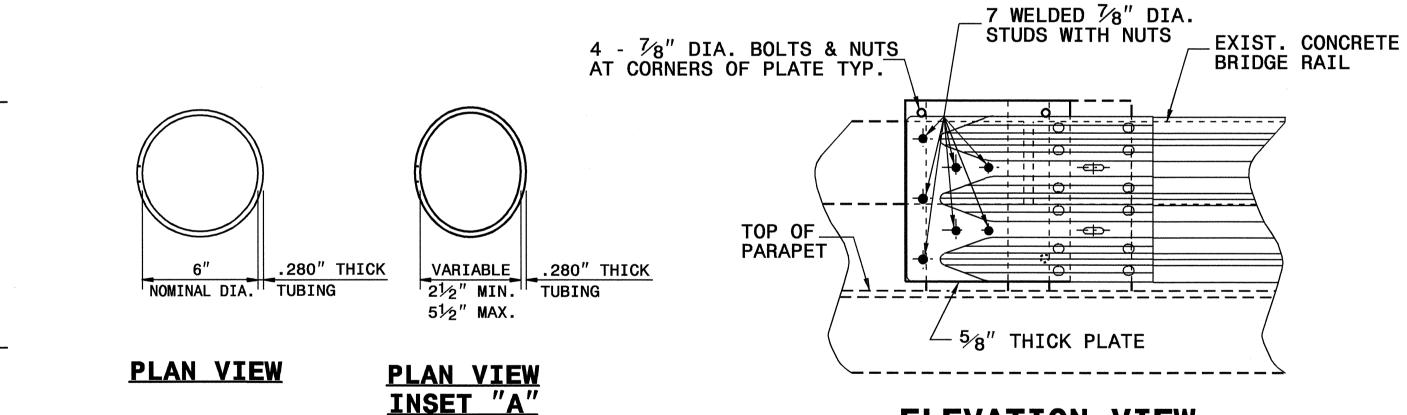
STD. OR ALTERED STEEL SPACER TUBE BOLTED TO GUARDRAIL ONLY

EXISTING CONC.

BRIDGE RAIL

_4 @ 7/8" DIA. BOLTS AND NUTS W/ 2 GALV. WASHERS EACH

-BRIDGE POST-



3'-11/2"

MAX.

PLAN VIEW

PAY LIMITS FOR PROPOSED ANCHOR UNIT TYPE III MODIFIED FOR POST & BEAM RAIL

PAY LIMITS FOR PROPOSED ANCHOR UNIT TYPE III MODIFIED FOR POST & BEAM RAIL

THRIE BEAM GUARDRAIL 'NESTED' (ONE RAIL INSIDE ANOTHER)

ELEVATION VIEW

5 SPACES @ 1'-63/4"

STEEL SPACER TUBE

STD. OR ALTERED STEEL SPACER TUBE(S) SCHEDULE 40-BOLTED TOGETHER AND TO GUARDRAIL ONLY (SEE INSET

GENERAL NOTES:

34" DIA. HOLE FOR 58" BOLTS

5∕8" THICK

FRONT PLATE -

5⁄8" BACK PLATE —

FIELD VERIFY PARAPET WIDTH

5/8" FRONT PLATE-

1'-10" END SHOE

∠GUTTER LINE

15/8"

FRONT VIEW

"A" AND NOTE 5.)

-CONNECT PLATES TO FIRST DOUBLE POST

- USE NUTS, BOLTS, AND WASHERS CONFORMING TO THE REQUIREMENTS OF A.S.T.M. A-307 AND GALVANIZED IN ACCORDANCE WITH SECTION 1076 OF STAND. SPECS.
 TAP NUTS FOR THE ™ DIA. STUDS AND BOLTS AFTER GALVANIZING SEE A.S.T.M. A-563.
 USE PLATES AND TUBES CONFORMING TO THE REQUIREMENTS OF A.S.T.M. A-36 AND

- GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH SECTION 1076 OF STAND. SPECS 4. ADDITIONAL FIELD HOLES MAY BE DRILLED IN STEEL RAIL AS DIRECTED BY THE ENGINEER
- 5. INSTALL FACE OF GUARDRAIL AS NEAR AS POSSIBLE TO PLUMB WITH THE PARAPET FACE AT BRIDGE END POST SPACER TUBE LOCATION BY USING STANDARD OR ALTERED SPACER TUBES OR A COMBINATION THEREOF OR AS DIRECTED BY THE ENGINEER. FOR VERY SMALL PARAPET WIDTHS,
- GUARDRAIL MAY BE INSTALLED AGAINST BRIDGE RAIL WITHOUT SPACER TUBES. 6. DO NOT DRILL BRIDGE RAIL IN ORDER TO INSTALL GUARDRAIL ANCHOR UNIT.
- 7. USE THIS DETAIL ONLY FOR BRIGES WITH POST AND BEAM TYPE RAIL. 8. ATTACH 1" X 1" BAR AND THREADED STUDS TO PLATE WITH 1/4" WELDS ALL AROUND.
- 9. 1" X 1" BAR MAY NOT BE NEEDED ON BRIDGE RAILS WHERE FACE OF RAIL DOES NOT PROJECT BEYOND FACE OF POST.
- 10. PROVIDE SHOP DRAWINGS OF THE PLATES TO THE ENGINEER FOR APPROVAL BEFORE FABRICATING THE PLATES.
- 11. LAP JOINTS IN THE DIRECTION OF TRAFFIC FLOW.
- 12. SEE ROADWAY STARDARD DRAWING 862.03 SHEET 4 FOR ADDITIONAL INFORMATION ON THE TYPE III ANCHOR UNIT

GUARDRAIL ATTACHMENT TO BRIDGE POST

WTR SECTION

FINISH GRADE-

' X 8" X 7'-0" WOOD G. R. POSTS WITH

3 SPACES @ 3'-11/2"

WTR SECTION-

X 8" X 22" WOOD OFFSET BLOCK

ADD AN ADDITIONAL 6" X 8" X 22" WOOD OFFSET BLOCK

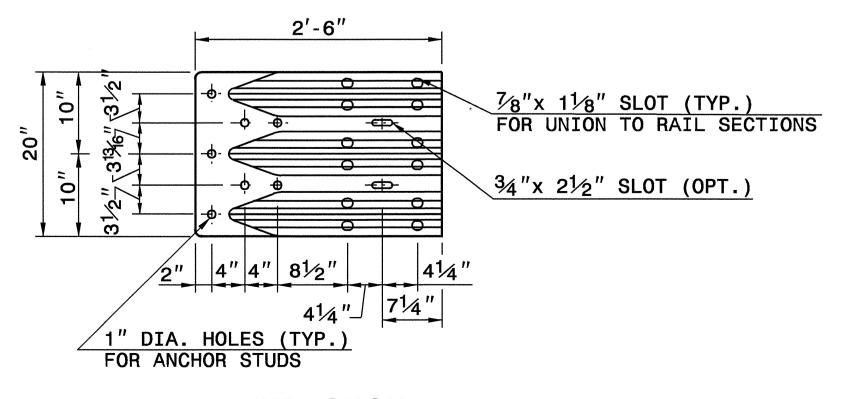
WHEN THE EXISTING CURB PROHIBITIES PLACEMENT

OF THE WOOD GUARDRAIL POST.

THRIE BEAM

GUARDRAIL

ELEVATION VIEW



END SHOE



-BRIDGE DECK

DESIGN SERVICES UNIT STANDARDS AND SPECIAL DESIGN Office 919-250-4128 FAX 919-250-4119

GUARDRAIL ANCHOR UNIT TYPE III MODIFIED FOR POST & BEAM RAIL

ORIGINAL BY: E.E. WARD _ DATE: __01-03 MODIFIED BY: 5.E. WARD DATE: 02-04
CHECKED BY: 5.E. WARD DATE: 6/6/64
FILE SPEC:\usr\details\stand\bpiii originial.dgn